Gold Coast Small Business Symposium

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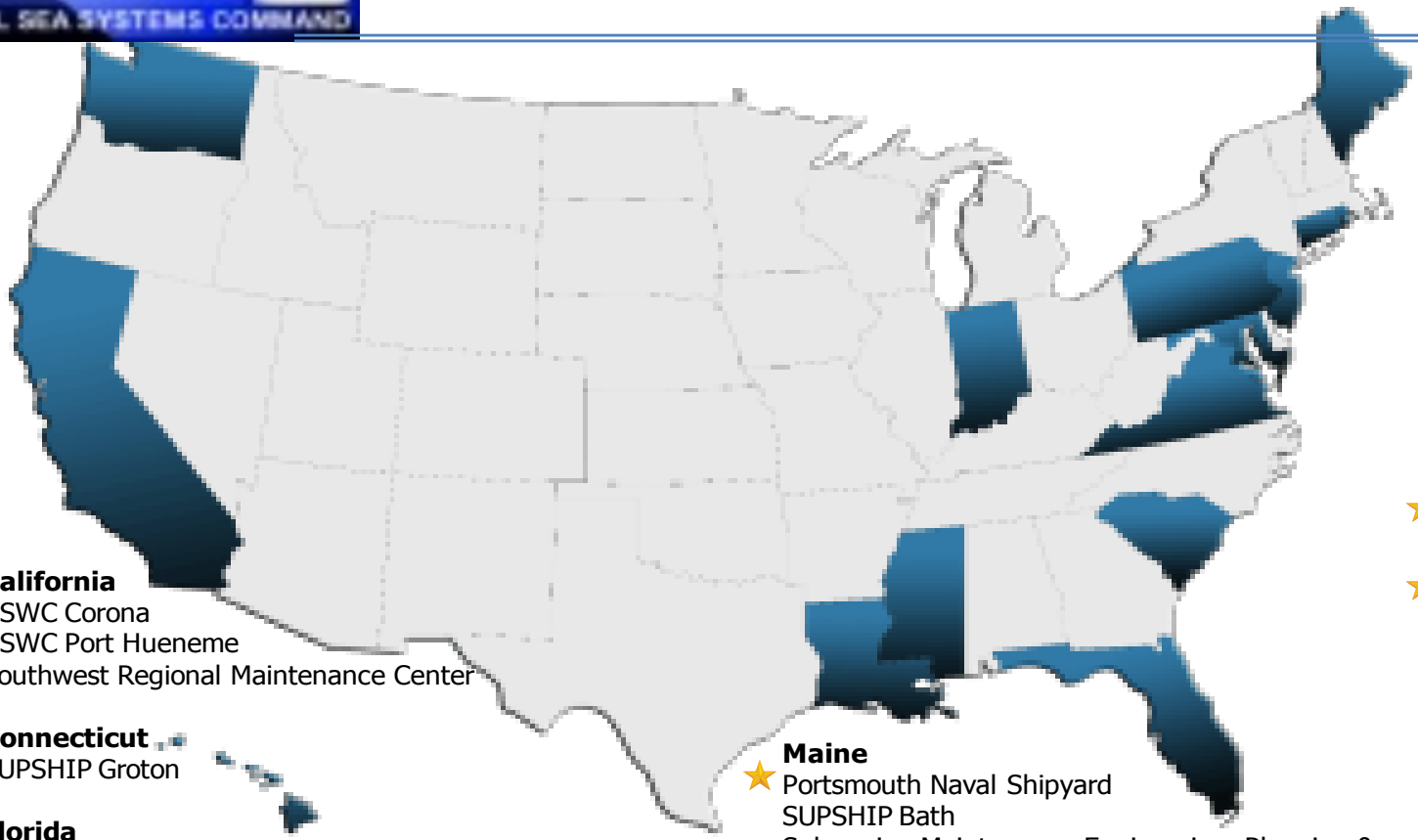
NAVSEA is Located Across the United States



California
NSWC Corona
NSWC Port Hueneme
★ Southwest Regional Maintenance Center

Connecticut
SUPSHIP Groton

Florida
NSWC Panama City
Naval Experimental Diving Unit
★ Southeast Regional Maintenance Center

Hawaii
★ Pearl Harbor Naval Shipyard & Intermediate Maintenance Facility

Indiana
NSWC Crane

Maine
★ Portsmouth Naval Shipyard
SUPSHIP Bath
Submarine Maintenance Engineering, Planning & Procurement

Maryland
NSWC Carderock
NSWC Indian Head
Naval Ordnance Safety & Security Activity
Naval Explosive Ordnance Disposal Technology Division

Mississippi and Louisiana
SUPSHIP Gulf Coast

New Jersey
AEGIS Technical Representati

Pennsylvania
NSWC Ship Systems Engineer Station
Naval Sea Logistics Center
Navy Foundry and Propeller C

Rhode Island
NUWC Headquarters
NUWC Newport

South Carolina
★ Naval Nuclear Power Training

Virginia
★ Norfolk Naval Shipyard
SUPSHIP Newport News
NSWC Dahlgren
Combat Direction Systems Act
Surface Combat Systems Cent
AEGIS Ballistic Missile Defense
Commander Naval Regional Maintenance Center
Norfolk Ships Support Activity
Surface Maintenance Enginee Planning Program

Washington
★ Puget Sound Naval Shipyard & Intermediate Maintenance Fac
NUWC Keyport

Washington DC
NAVSEA Directorates & PEO's
NSWC Headquarters

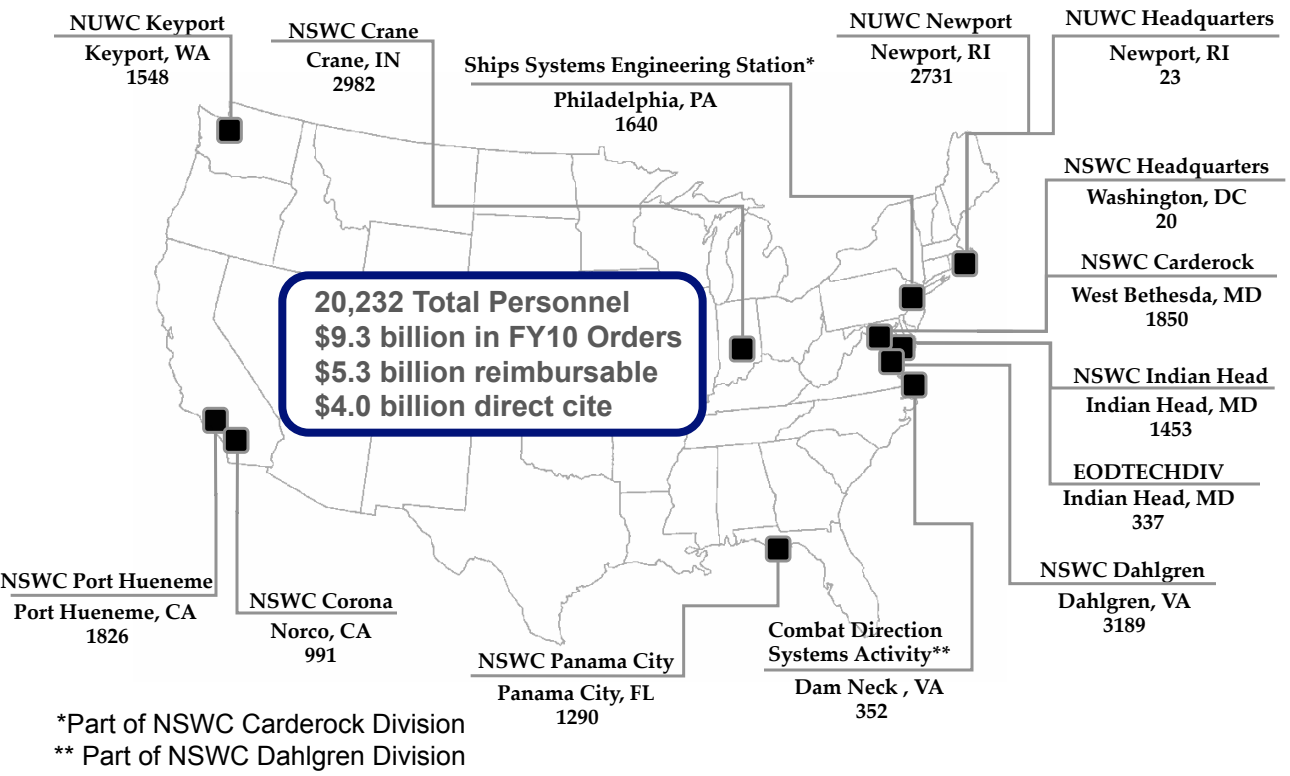
NAVSEA Major Sites
NAVSEA sites with 10-300 persons
★ CFFC Claimancy/NAVSEA Operator Tech Mgmt

NAVSEA from 50,000 Feet

- NAVSEA is comprised of more than 58,000 civilian and military personnel in 38 activities located across the United States and Asia. Together, we build, buy and maintain ships, submarines and combat systems for the U.S. Navy.

- Accounting for nearly one-fifth of the Navy's budget, NAVSEA manages more than 150 acquisition programs.

NAVSEA Warfare Centers



*Part of NSWC Carderock Division
** Part of NSWC Dahlgren Division

- Provide research and development (R&D), test and evaluation (T&E) for the future Navy and in-service engineering and logistics support to the current Navy Fleet
- Business-based enterprise operating under the Navy Working Capital Fund
- Critical concentration of scientists, engineers and technicians (~14,500) with over 550 PhDs
- Unimpeded access to unique military facilities and technical capabilities
- Awarded 121 patents in FY10

Warfare Centers (WFCs) exist to:

- Understand the technical dimensions of military problems
- Liaison with industry and academia to define the best solutions
- Provide quality assurance for Navy Programs
- Provide lifecycle support for Navy ship and submarine systems

Products and Services Output

- In-Service solutions for Today's Fleet
- Technical Authority Advice and Decisions
- Interoperable Warfare Systems
- Innovation to provide technology solutions and facilitate technology transition to Tomorrow's Fleet

All figures reflect FY10

NAVSEA
WARFARE CENTERS

Key Takeaways

- Total Ownership Cost (TOC)
  - Competition
  - Innovation
  - Reduced Life Cycle Costs

- Open Architecture and Modularity.


NAVSEA
WARFARE CENTERS

NSWC Carderock – West Bethesda, MD
NAVSSES – Philadelphia, PA

Strategic Direction: To be the Navy's principle provider of Hull, Mechanical, and Electrical expertise and to provide Naval Architecture and Marine Engineering technical solutions for developing, building, and maintaining a dominant, ready and affordable Fleet. This is accomplished through research, development, test and evaluation, analysis, acquisition support, in-service engineering, logistics and integration of surface and undersea vehicles and associated systems.

Naval Ships Systems Engineering Station (NAVSSES) complements NSWC Carderock Division capabilities and provides full spectrum S&E capabilities for surface and undersea vehicle machinery and for other ship systems.

Technical Capabilities:

CD01: Ship and Submarine Design and Integration
CD02: Ship and Submarine Acquisition Engineering
CD03: Ship and Submarine System Concepts, Technologies and Processes
CD04: Surface and Undersea Vehical Machinery Systems Integration (Phil.)
CD05: Combatant Craft & Marine Corps Vehicles
CD06: Unmanned Vehicles Naval Architecture and Marine Engineering
CD07: Hull Forms and Fluid Dynamics
CD08: Propulsors
CD09: Surface & Undersea Vehicle Mechanical Power & Propulsion Systems (Phil.)
CD10: Surface & Undersea Vehicle Electrical Power & Propulsion Systems (Phil.)
CD11: Surface & Undersea Vehicle Auxiliary Machinery Systems (Phil.)
CD12: Surface & Undersea Vehicle Hull, Deck, and Habitability Machinery Systems (Phil.)
CD13: Surface & Undersea Vehicle Machinery Automation, Controls, Sensors and Network Systems (Phil.)
CD14: Surface, Undersea, and Weapon Vehicle Materials
CD15: Surface & Undersea Vehicle Structures
CD16: Alternative Energy & Power Sources R&D
CD17: Liquid Waste Management, Science and Systems
CD18: Solid Waste, Hazardous Material, and Radiation Technology Management, Science and Systems
CD19: Advanced Logistics Concepts and HM&E Life Cycle Logistics Support
CD20: Surface, Undersea and USMC Vehicle Vulnerability Reduction and Protection
CD21: Ship Recoverability and Damage Control
CD22: Surface and Undersea Vehicle Underwater Signatures, Silencing Systems, and Susceptibility
CD23: Surface and Undersea Vehicle Non-Acoustic Topside Signatures, Silencing Systems, and Susceptibility
CD24: HM&E for Undersea Vehicle Sail Systems and Deployed Systems

NSWC Corona
Corona, CA

Strategic Direction: To provide premier Independent assessment capability for the Navy and Department of Defense using rigorous, disciplined science and engineering processes to gauge warfighting capability of weapons and integrated combat systems by assessing system performance, readiness, quality, supportability, and the adequacy of training from unit to force level.

Technical Capabilities:

AC01: Warfare Systems Performance and Readiness Assessment

AC02: Quality and Mission Assurance Assessment

AC03: Metrology, Test, and Monitoring Systems Assessment

AC04: Force Training Assessment

AC05: Weapons Systems Interface Assessment

NSWC Crane
Crane, IN

Strategic Direction: To provide total lifecycle leadership utilizing best-in-class facilities and technical rigor in Electronic Warfare/ Information Operations, Strategic Missions and Special Missions.

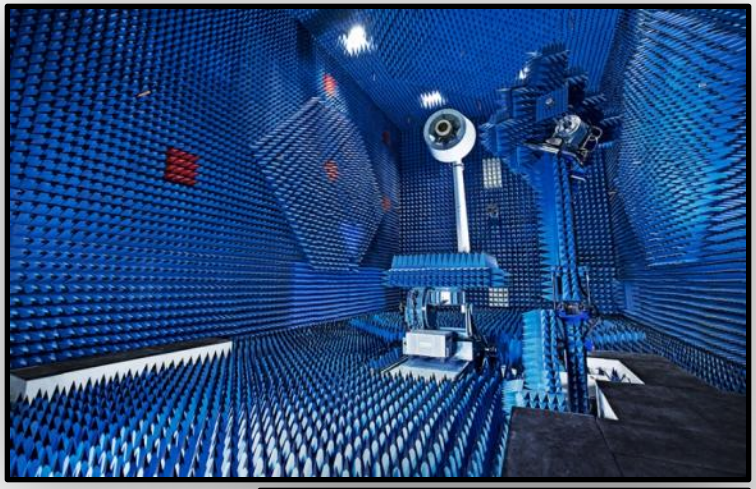
Technical Capabilities:
CR01: Strategic Systems Hardware Engineering, AE, & Sustainment
CR03: Special Operations Hardware In-Service Engineer, Procurement & Sustainment
CR04: EW Systems RDT&E/Acquisition/Sustainment
CR05: Radar Component Sustainment
CR06: Energy & Power Source AE, ISE, T&E & Sustainment
CR07: Acoustic Sensors AE, ISE & Sustainment
CR08: Microwave Technologies RDT&E, AE & Sustainment
CR09: Microelectronic Technologies RDT&E, AE, & Sustainment
CR10: Infrared Countermeasures and Pyrotechnic RT&E and Sustainment
CR11: Defense Security Systems AE, ISE and Sustainment
CR12: Navy Electronics Depot
CR13: Electro-Optic, AE, ISE & Sustainment
CR14: Obsolescence Management

NSWC Dahlgren - *Dahlgren, VA*
Combat Direction Systems Activity – *Dam Neck, VA*

Strategic Direction: To provide the full spectrum Science & Engineering (S&E) capabilities for surface ship weapons systems integration up to and including the force level, missile defense, strategic systems and related areas of Joint and Homeland defense. Combat Direction Support Activity (CDSA) will complement capabilities and provide S&E capability for Integrated Training, Force Integration and Interoperability, Integrated Combat Control Systems and Information Operations.

Technical Capabilities:

DD01: Force & Surface Platform Level Warfare Systems Analysis & Modeling (DL)
DD02: Weapon Systems Analysis, Effects, & Effectiveness (DL)
DD03: Radar and Electro-Optic Systems RDT&E (DL)
DD04: Surface Warfare Systems Engineering & Integration RDT&E
DD05: Surface Combat Systems Engineering & Integration RDT&E (DL)
DD06: Surface Combat Control Systems S&T, RDT&E (DL)
DD07: Surface Conventional Weapon Control Systems RDT&E (DL)
DD08: Surface Warfare System and Force Level Certification/IV&V
DD09: Human Systems Integration Science and Engineering
DD10: Missile Systems Integration (DL)
DD11: Surface Conventional and Elecromagnetic Gun Systems RDT&E (DL)
DD12: Directed Energy Systems RDT&E (DL)
DD13: Weaponization of Surface & Air Unmanned Systems (DL)
DD14: Marine Corps and Other Weaponry Systems RDT&E (DL)
DD15: Strategic Mission Planning, Targeting, and Fire Control Systems (DL)
DD16: Re-Entry Systems (DL)
DD17: Surface Electronic Warfare Systems Architecture and Combat Systems Integration RDT&E
DD18: Surface Warfare Systems Safety (DL)
DD19: Surface Warfare Electromagnetic Environmental Effects (DL)
DD20: Chemical, Biological and Radiological Warfare Defense Systems RDT&E
DD21: National Response Missions, Including Homeland Security and Defense (DL)
DD22: Physical & Non-Physical Vulnerability Analysis (DL)
DD23: Force Level Warfare Systems Engineering and Integration
DD24: Force Level Warfare Systems Interoperability Engineering
DD27: Tactical Common Data Communications Systems Integration and Interoperability (DN)
DD35: Integrated Surface Combat Control Systems Support (DN)
DD36: Integrated Training Systems (DN)
DD37: Radar Distribution Systems (DN)
DD38: Joint Command and Control Systems Integration and Architecture Development (DN)



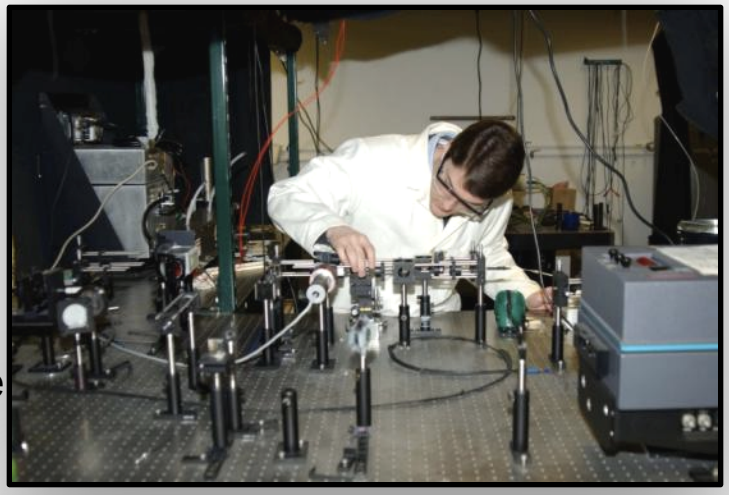
NSWC EOD Technology Division
Stump Neck, MD

Strategic Direction: To be globally recognized as the leader of Department of Defense initiatives to proactively identify and counter future threats to Explosive Ordnance Disposal missions by applying innovative technology, developing expert knowledge, and participating fully in the technical intelligence process.

Technical Capabilities:
ED01: Counter-Improvised Explosive Device (IED) Technology
ED02: Counter-Improvised Explosive Device (IED) Information
ED03: Explosive Ordnance Disposal (EOD) Technology
ED04: Explosive Ordnance Disposal (EOD) Information
ED05: Counter Radio Controlled IED Electronic Warfare (CREW) Technology
ED06: Counter Radio Controlled IED Electronic Warfare (CREW) Information

NSWC Indian Head
Indian Head, MD

Strategic Direction: To provide full spectrum S&E and industrial capabilities for energetic systems and energetic materials from concept through scale-up to limited production and operational deployment for Naval, joint, and homeland defense applications.



Technical Capabilities:
IH01: Energetic Systems RDT&E, AE, ISE and Sustainment
IH02: Energetic Systems and Material Scale-up, Manufacture and Manufacturing Technology
IH03: Cartridge Actuated Devices, Cutters, Sounding and Specialty Devices RDT&E, AE, ISE, Sustainment, and Manufacturing
IH04: Weapon Simulators, Trainers, Training, Test and Diagnostic Equipment RDT&E, AE, ISE, and Sustainment
IH05: Energetic Safety, Environmental Technology, Logistics, and PHST (Packaging/Handling / Storage and Transportation) RDT&E, AE, ISE and Sustainment
IH06: Conventional Ammunition Engineering and Sustainment
IH07: Gun Systems ISE, T&E and ILS

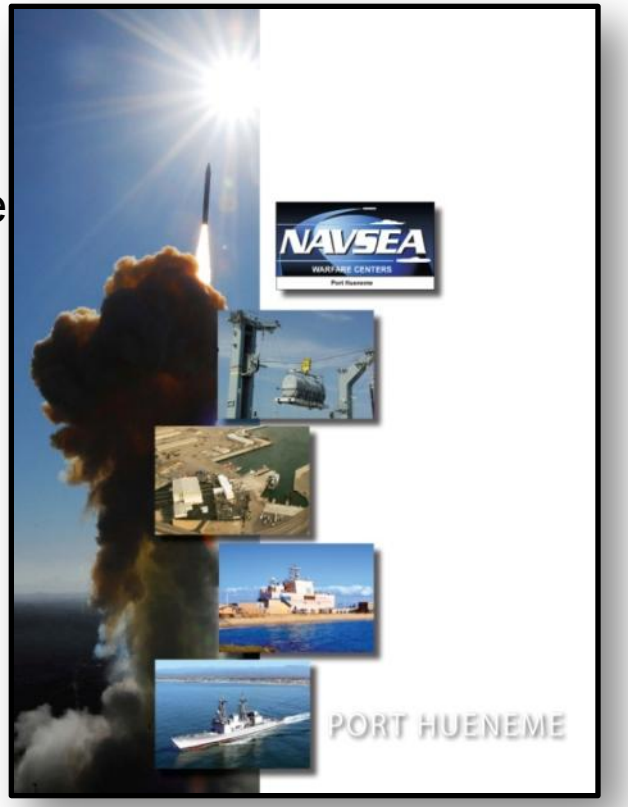
NSWC Panama City
Panama City, FL

Strategic Direction: To provide full spectrum S&E capabilities for mine warfare systems, mines, special warfare systems, diving and life support systems and other warfare systems used in the littorals.

Technical Capabilities:
PC20: Chemical & Biological Warfare Individual Protection Systems
PC21: Expeditionary Coastal & Maritime Security Systems Engineering & Integration
PC25: Air Cushion Vehicle Systems
PC26: Expeditionary Maneuver Warfare Systems Engineering and Integration
PC27: Special Warfare Maritime Mobility, Mission Systems & Mission Support Equipment
PC28: MCM Detect & Engage Systems, Modular Mission Packaging, and Platform Integration & Handling
PC29: Littoral Mission Systems Integration and Modular Mission Packages Certification
PC30: Unmanned Systems Engineering & Integration, Autonomous Operations, Joint Interoperability and Common Control
PC31: Mine Sensor & Target Detection Technology, Mine Delivery Platform Integration and Minefield Architecture
PC33: Diving & Diving Support Systems
PC34: Surface Life Support Systems for Extreme Environments

NSWC Port Hueneme
Port Hueneme, CA

Strategic Direction: To provide T&E, in-service engineering & logistics and integration capabilities for surface ship weapons, combat and warfare systems and be the primary interface with the surface force for the in-service work of the Warfare Center (WFC).



Technical Capabilities:
PH01: Strike Force Interoperability and Theater Warfare Systems ISE, T&E, and ILS
PH02: Surface Combat Systems ISE, T&E, and ILS
PH03: Surface Weapon Systems ISE, T&E, and ILS
PH04: Underway Replenishment Systems ISE, RDT&E, and ILS
PH06: Surface Missile Systems ISE, T&E, and ILS
PH07: Surface Missile Launcher Systems ISE, T&E, and ILS
PH08: Radar Systems ISE, T&E, and ILS
PH09: Directed Energy Systems ISE, T&E, and ILS